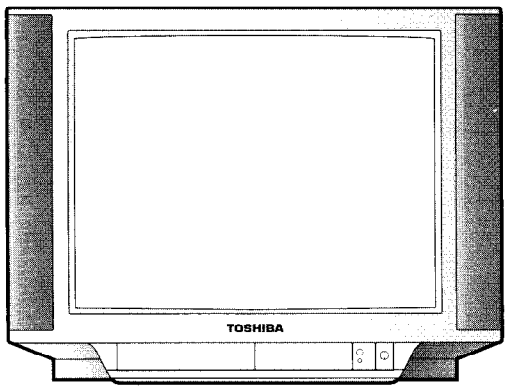
TOSHIBA



Nicam Digital Stereo Colour Television

with fastext

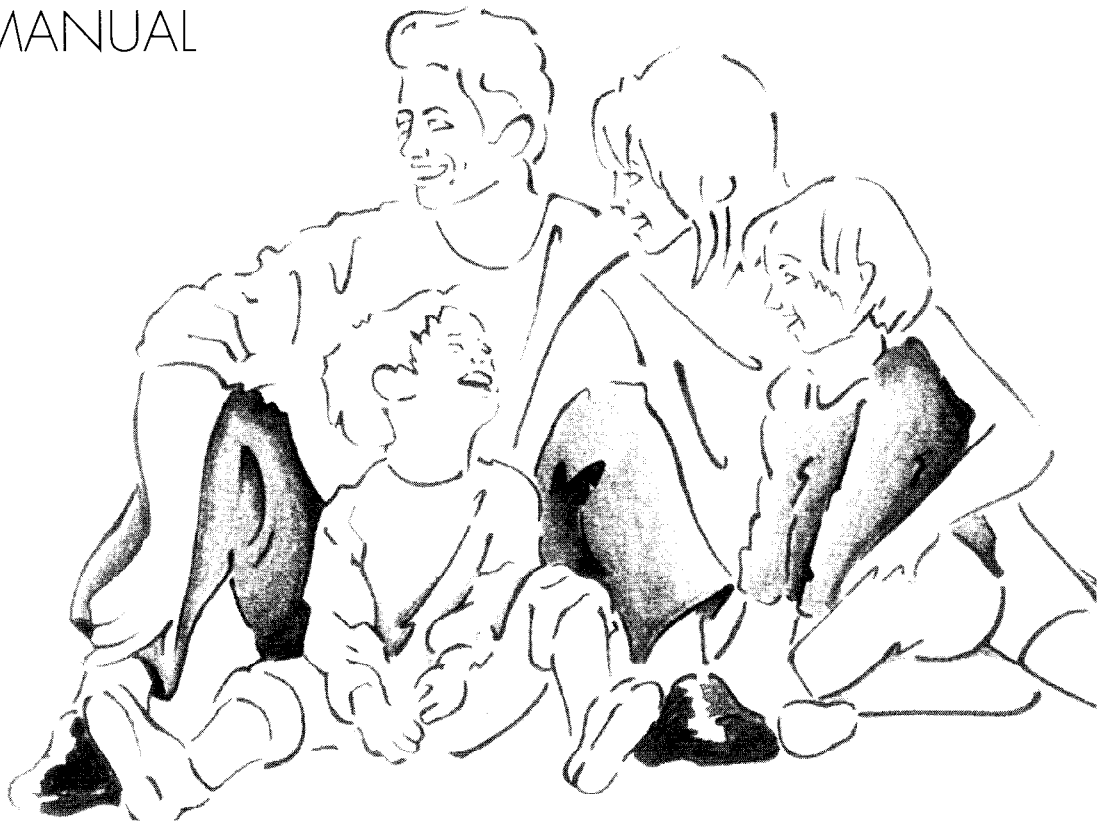
and

* DOLBY SURROUND

PRO • LOGIC

2557DB
2857DB
3357DB

OWNER'S MANUAL



Introduction

Optimum reception of colour and text requires a good signal and will generally mean that a loft or outdoor aerial must be used. The exact type and siting will depend upon your particular area and your local Toshiba dealer will be best to advise.

Contents:

GETTING STARTED

Introduction (Contents, Installation)	Page 2
Your remote control (Operation and batteries)	Page 3
Installation (Connecting your TV)	Page 4
Tuning-in (Switching on)	Page 5
Tuning-in (AUTO SET)	Pages 6/7
Tuning-in (Manual Set, Tuning to your Video Manual Fine Tune, Channel Skip)	Pages 8/9
TV Back Connections	Page 10
Connections	Page 11

BASIC OPERATION

Watching TV programmes (Volume, Changing programme positions)	Page 12
Selectable Picture (Picture adjustment, Noise reduction, Blue Back)	Page 13
Selectable tone (Sound adjustment, Super Woofer)	Page 14

SPECIAL SOUND FEATURES

Stereo or bilingual broadcasts (Stereo mode)	Page 15
Surround effect selection	Page 16
Dolby Pro Logic Surround	Pages 17/18
Dolby Surround level settings	Page 19
Digital Surround processor	Page 20

ADDITIONAL FEATURES

Menus (Timer,Text, External input/output, Picture Centring)	Page 21/22
16:9, Time Display	Page 23

VIEWING TEXT

Text	Page 24
The text buttons on the remote control	Page 25

OTHER

TV front connections	Page 26
For your guidance (Simple problem solving & Safety tips)	Page 27
Specifications & Accessories	Page 28

Installation:

Positioning your TV

Locate the television where direct sunlight does not impair the picture, soft and indirect lighting is recommended for comfortable viewing.

Avoid locations which are excessively warm, moist or humid to prevent damage to the cabinet and components. Leave at least 10 cm clearance around the top, back and sides of the television to allow adequate ventilation and sound response.

Mains Connection

This equipment will operate on any supply between 220 and 240v AC 50Hz. Never connect to a DC supply or any other power source.

Mains Plug

DO NOT cut off the fused mains plug from this equipment, this incorporates a special Radio Interference Filter, the removal of which will impair its performance.
The fuse fitted in this plug is 5A. and is approved by ASTA or BSI to BS1362. It should only be replaced by a correctly rated and approved type and the fuse cover must be re-fitted. **IF IN DOUBT CONSULT A COMPETENT ELECTRICIAN**

Your remote control

The illustration below is designed to show the areas of the remote control. Individual buttons are described in the text.

Operation:

Sound Mute
Page 12

Nicam Stereo/Bilingual
Page 15

Keypad Number Buttons

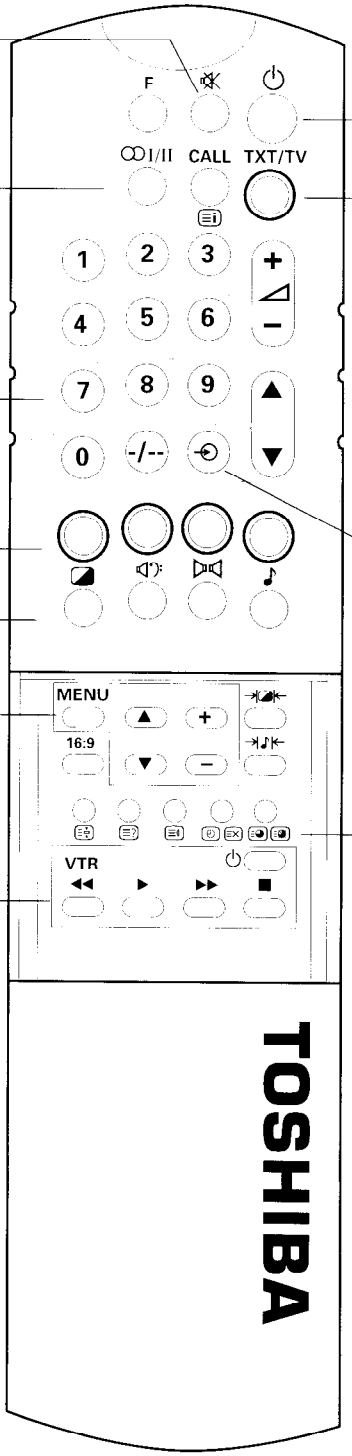
Coloured Prompt Buttons
Pages 6-9, 24

Picture and Sound Controls
Pages 13, 14, 16, 18-20

Menu Selection
Pages 5-9, 19, 21, 22

Video Recorder Buttons - you may use these to operate your Toshiba Video Recorder (as shown below)

◀◀ for REWIND
▶▶ for FAST FORWARD
▶ for PLAY
■ for STOP
⏻ for STANDBY

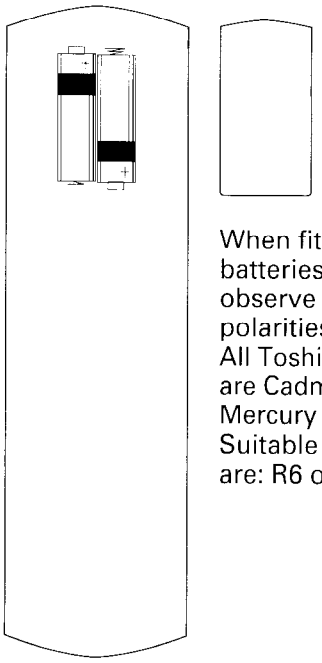


Stand-by
Page 12

Text
Pages 24-25

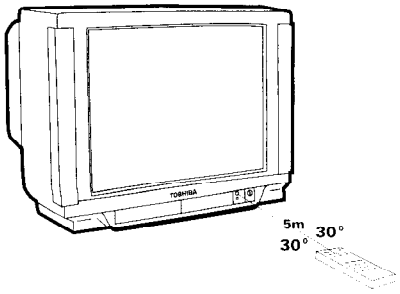
Input Selection Button Page 11

Text buttons
Page 25



When fitting new batteries take care to observe the correct polarities.
All Toshiba batteries are Cadmium and Mercury free.
Suitable battery types are: R6 or AA.

Effective Range of the Remote Control



Caution:
DO NOT throw your batteries into a fire.
Dispose of your batteries in a designated disposal area.
DO NOT combine a used old battery with a new one.
DO NOT mix battery types.

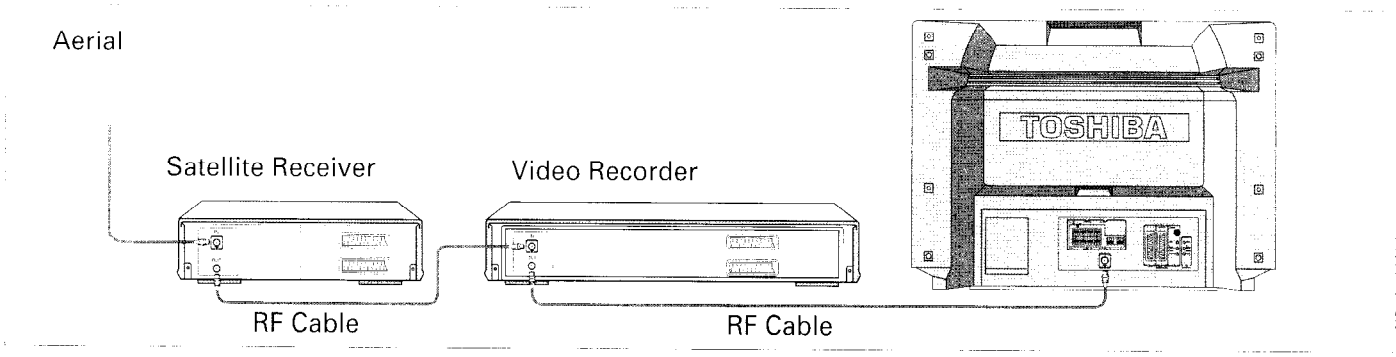
Installation

Your new Toshiba television is designed to automatically tune in and store all available terrestrial transmissions and to allocate a satellite position.
The following describes the initial set-up procedure in order to operate the features of your TV.

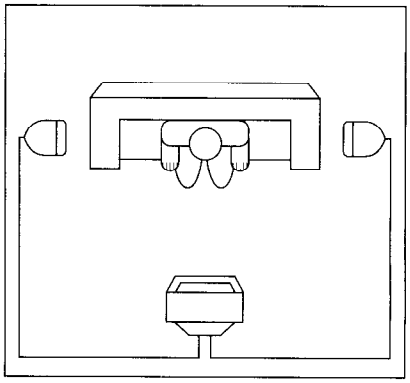
Connecting your TV:

Connecting up. Connect the aerial plug to the socket on the rear of the television. If you use a satellite receiver and/or a video recorder it is essential that the aerial cable is connected through the satellite receiver and/or through the video recorder to the television. DO NOT CONNECT SCART LEADS UNTIL THE TELEVISION IS FULLY TUNED.

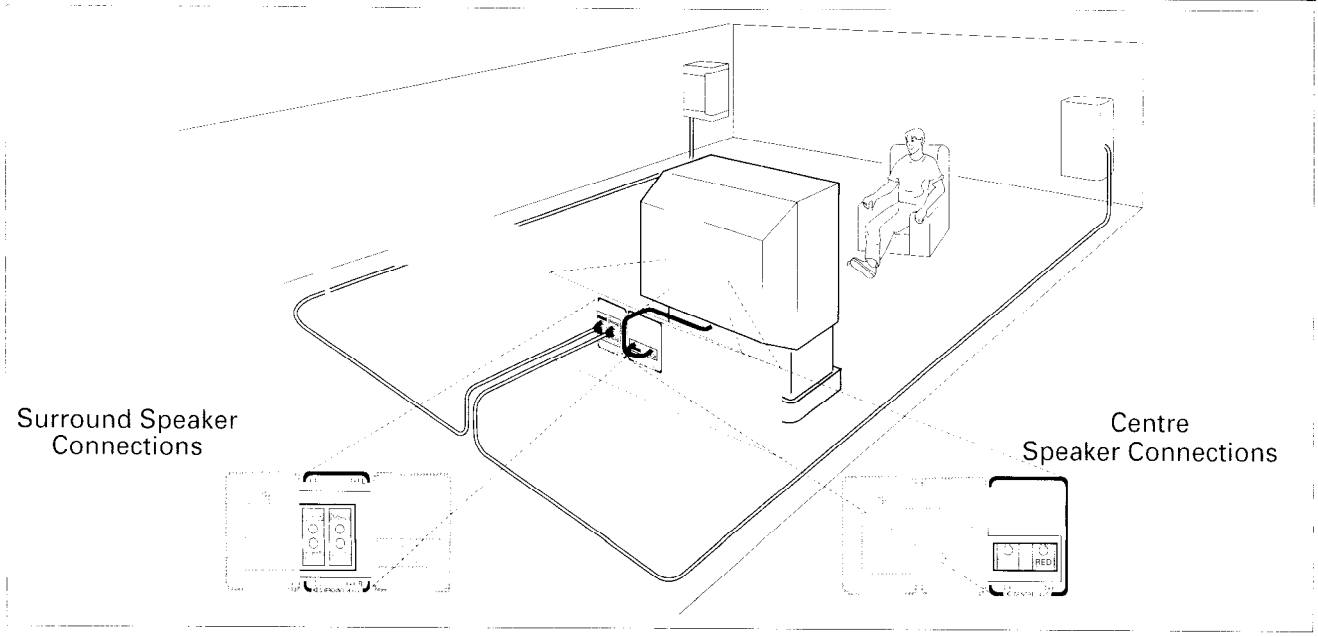
If you use a satellite receiver and/or a video recorder it is essential that these are connected using an RF lead (aerial lead) only, before starting the tuning procedures. DO NOT use scart leads to connect satellite receivers and video recorders until after the set is tuned.



Centre and Surround speakers. These speakers are essential to get Surround effects from your TV. The centre speaker is detachable from the stand, if required, and should be placed below the TV screen. See separate fixing instruction sheet for mounting and connecting of rear speakers. The optimum mounting height being 1.5 metres from the floor, alternatively these speakers can stand on the floor.



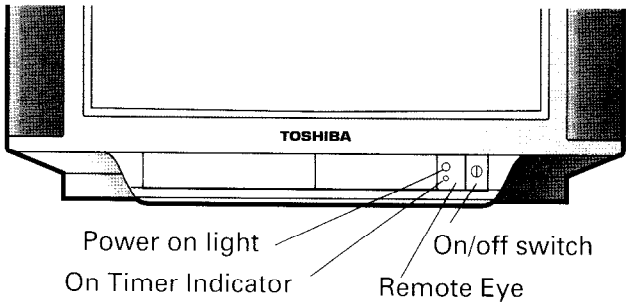
Note: The wire with the white trace must go to the positive (RED) terminal. Always make sure that there are no 'short circuits' on the speaker connections.

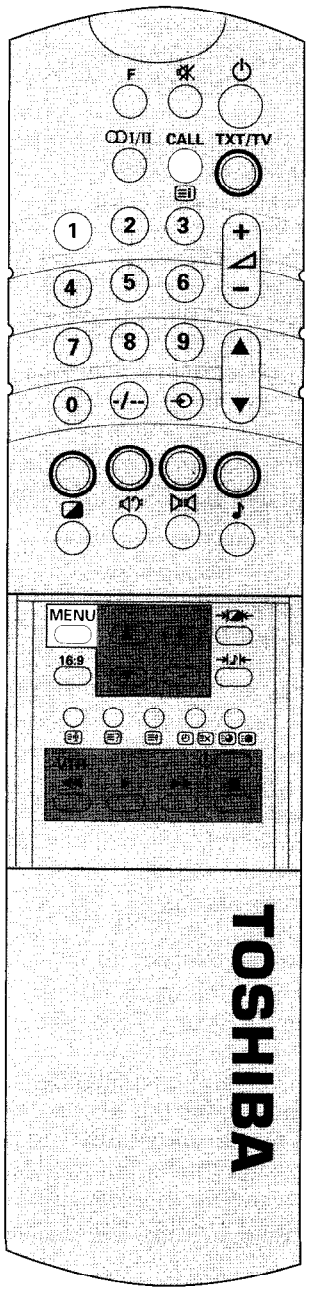


Tuning-in

Due to the complicated map of TV transmitters we are unable to pre-tune your TV. The following simple steps will enable you to tune your TV and automatically store BBC1 on position 1, BBC2 on position 2, ITV on position 3 and Channel 4 on position 4. The right hand column gives the necessary steps, the left gives extra information.

Switching on:





Menu displays will remain on screen for approximately 15 seconds. If a display disappears simply press the MENU button to bring it back.

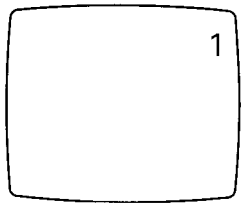
To cancel any display press the CALL button.

Note: The satellite receiver must be switched on and tune to Sky News and the video recorder plugged in and set to standby. This will enable your television to identify and allocate the necessary programme positions.

1 If the Power-On light is unlit, press the on/off switch on the front of the TV to switch the set into standby mode.

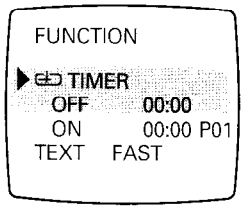
The Power-On red light will glow.

2 Press button 1 on the remote control to turn the TV on.

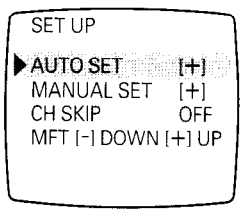


3 Pull down the lower part of the remote control just enough to reveal the additional panel of buttons.

Press the MENU button repeatedly to select between the menu displays and normal TV mode.



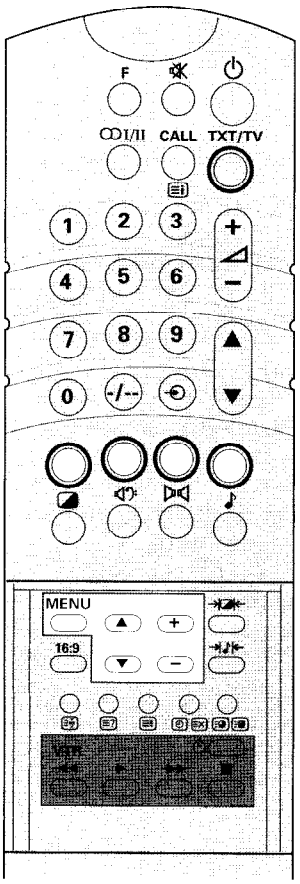
Note: This is the screen you need to tune your TV. →



Tuning-in

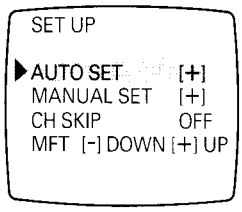
AUTO SET can search and automatically allocate programme positions using 1-19 according to your preferences. To allocate a video position and any programme positions above 20 use MANUAL SET.

AUTO SET:

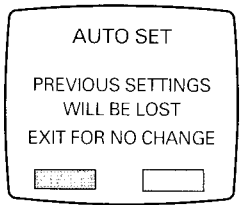


Note: The highlighted function is activated.

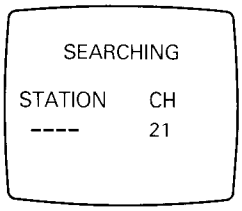
1 With the SET UP menu showing, press the ▲ or ▼ button to highlight AUTO-SET. Press the + button to select AUTO SET.



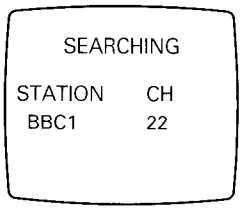
2 Press the RED prompt button on the remote control (START), to begin the automatic search.



DO NOT PRESS ANY BUTTONS WHILST THE AUTOMATIC SEARCH IS IN PROGRESS. If a mistake is made repeat steps 1 and 2 to start again from the beginning.



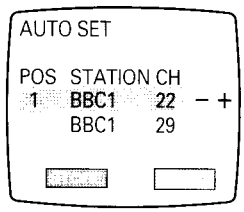
The CH number will change as the TV searches through the band. Each station will be displayed along with the station identifier.



Allow the television to complete the search.

(This takes approximately 90 seconds.)

3 When the search is complete the adjacent display will appear. The television will display a list of all the BBC1 signals available. If there is a choice, press the +/− buttons to scroll through and view the channels. (To scroll rapidly hold either the + or − button down.)



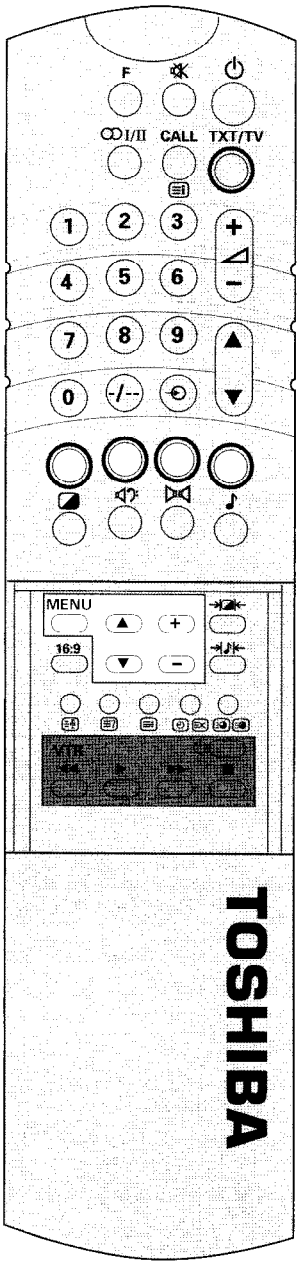
4 Select the strongest signal (ie the best picture and sound). Press the RED prompt button (STORE) to memorise BBC1 to programme position 1. All the highlighted text changes to yellow momentarily. The other choices will be displayed for you to select later.

You may only have one selection. A maximum of four selections can be displayed at any time.

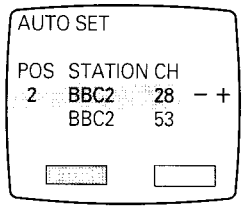
RECOMMENDED PROGRAMME POSITIONS FOR AUTO SET		
DISPLAY	PROG POSITION	DESCRIPTION
BBC1	POS 1	BBC1
BBC2	POS 2	BBC2
ITV1	POS 3	ITV1
CH4	POS 4	CHANNEL 4
CH5	POS 5	CHANNEL 5
SAT	POS 6	SATELLITE

Tuning-in

AUTO SET:



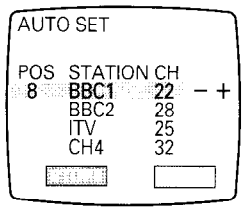
5 Position 2 will appear showing the BBC2 choices. Repeat steps 3 and 4 to allocate the required signal.

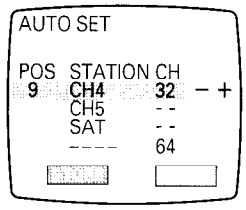


6 Position 5 is allocated to Channel 5 although this is not currently available. Press STORE to continue this procedure.

Position 6 is allocated to the satellite channel. On storing the satellite channel the menu will display all received channels.

7 Once each broadcasting station has been stored, you will be given the option to set any of the channels to a second programme position if desired. For example, you may wish to put BBC1 on programme position 8 as well as on programme position 1 and Channel 4 on position 9 as well as on position 4.





Use the (+)/(–) buttons to scroll through the list of available channels then press the red prompt button (STORE) to store the channel. As each channel is stored to a second programme position it will no longer appear in the list. Repeat as required.

When you have finished press the BLUE prompt button (EXIT).

YOU MAY NOW CONNECT SCART LEADS

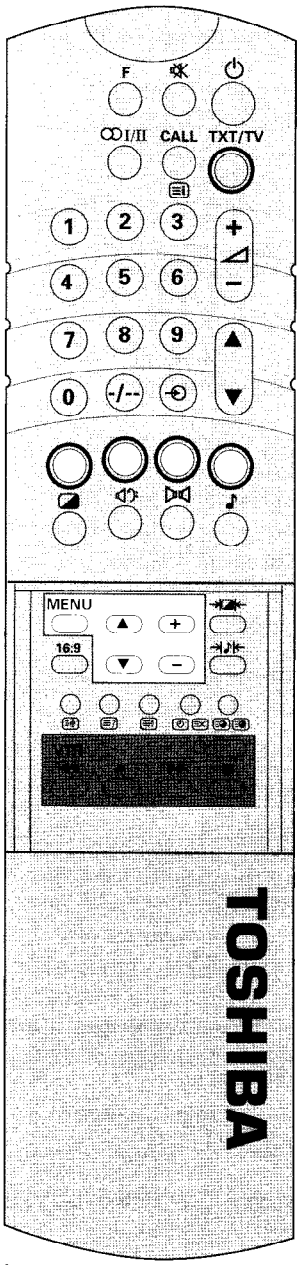
It is not necessary to tune your television to your video. Simply connect the scart leads, insert a tape and press play.

If you are unable to use scart leads, or wish to allocate a programme position to the video refer to page 9 "Tuning to your video" using RF leads.

Tuning-in

Your Toshiba television may be tuned manually as an alternative to AUTO SET.

Manual Set:

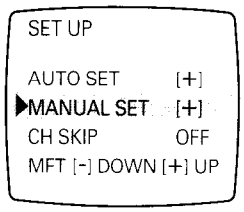


Note for Engineers: This TV has direct channel entry if the channel numbers are known.

Select the screen in step 2 on page 8, enter the required programme position and then enter the appropriate channel number using the remote control. The press the RED prompt button to memorise.

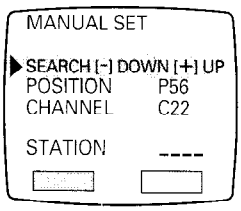
Note: The highlighted function is activated.

1 With the SET UP menu showing, press the ▼ or ▲ button to highlight MANUAL SET.



2 Press the + button to select MANUAL SET.

Press the ▼ or ▲ button to highlight SEARCH, press the + button to search up the band. Press the − button to search down the band. The CH number will change as the TV searches through the band.

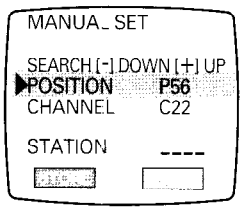


When a station/satellite is found it will be displayed along with the station identifier (when there is one ie BBC1).

If the picture quality is poor, due to a weak signal, press the + or − button to recommence searching the band.

When a station is found you will need to allocate a programme position number of your choice.

3 Press the ▼ button to select the adjacent display. Press the + or − button to raise or lower the programme position.



Press the RED prompt button on the remote control (STORE) to memorise the programme position. The highlighted text changes to yellow momentarily.

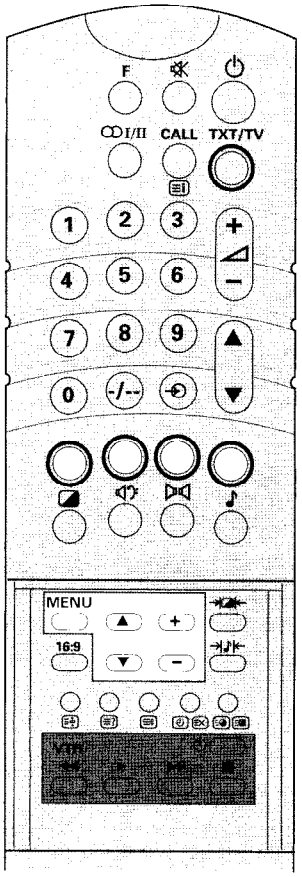
4 Repeat the procedure for all the remaining programme positions you wish to tune including the satellite.

If you do not STORE the programme position it will not be held in memory.

Press the BLUE prompt button on the remote control (EXIT) when you have finished tuning.

Tuning-in

Tuning to your video (connected via an RF lead), Manual Fine Tuning, Skip:



Channel Skip:

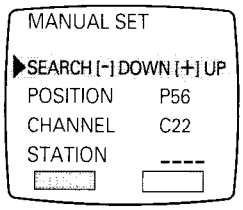
The Skip feature enables you to prevent certain programme positions from being viewed.
For example, if you are going out for the evening and you do not wish your children to watch a certain film etc., you can skip the programme position (channel, eg BBC1) and take the remote control with you. The TV will function normally, using the controls on the front of the TV but the set will not show the skipped programme position (in our example BBC 1).

NOTE: A * will appear beside a skipped programme position when using the numbered buttons on the remote control.

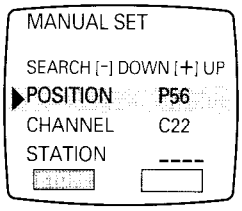
Tuning to your video (connected via an RF lead)
To tune your television to your video disconnect the scart leads and play a pre-recorded tape.

1 Follow steps 1 and 2 (Manual Set) as detailed on page 8.

When the video recorder is found, your pre-recorded tape will be displayed.



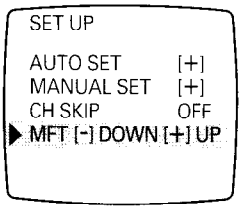
Allocate a programme position number as detailed in step 3 on page 8. (It is suggested that position 00 is used.)



YOU MAY NOW CONNECT YOUR SCART LEADS

Manual Fine Tune (Not normally required)
This will enable you to adjust the tuning manually to optimise the picture.

1 Press the MENU button repeatedly until the adjacent display appears. Press the ▲ (or ▼) buttons to select MFT.

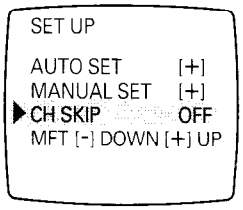


2 Press the + button to fine tune up, press the − to fine tune down.

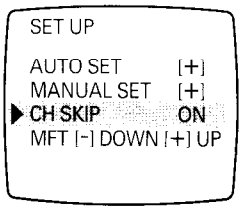
Tuning-in is now complete.

To select SKIP

1 Select the programme position (ie BBC1) to be skipped and press the menu button repeatedly until the adjacent display appears. Press the ▲ (or ▼) button to select SKIP.



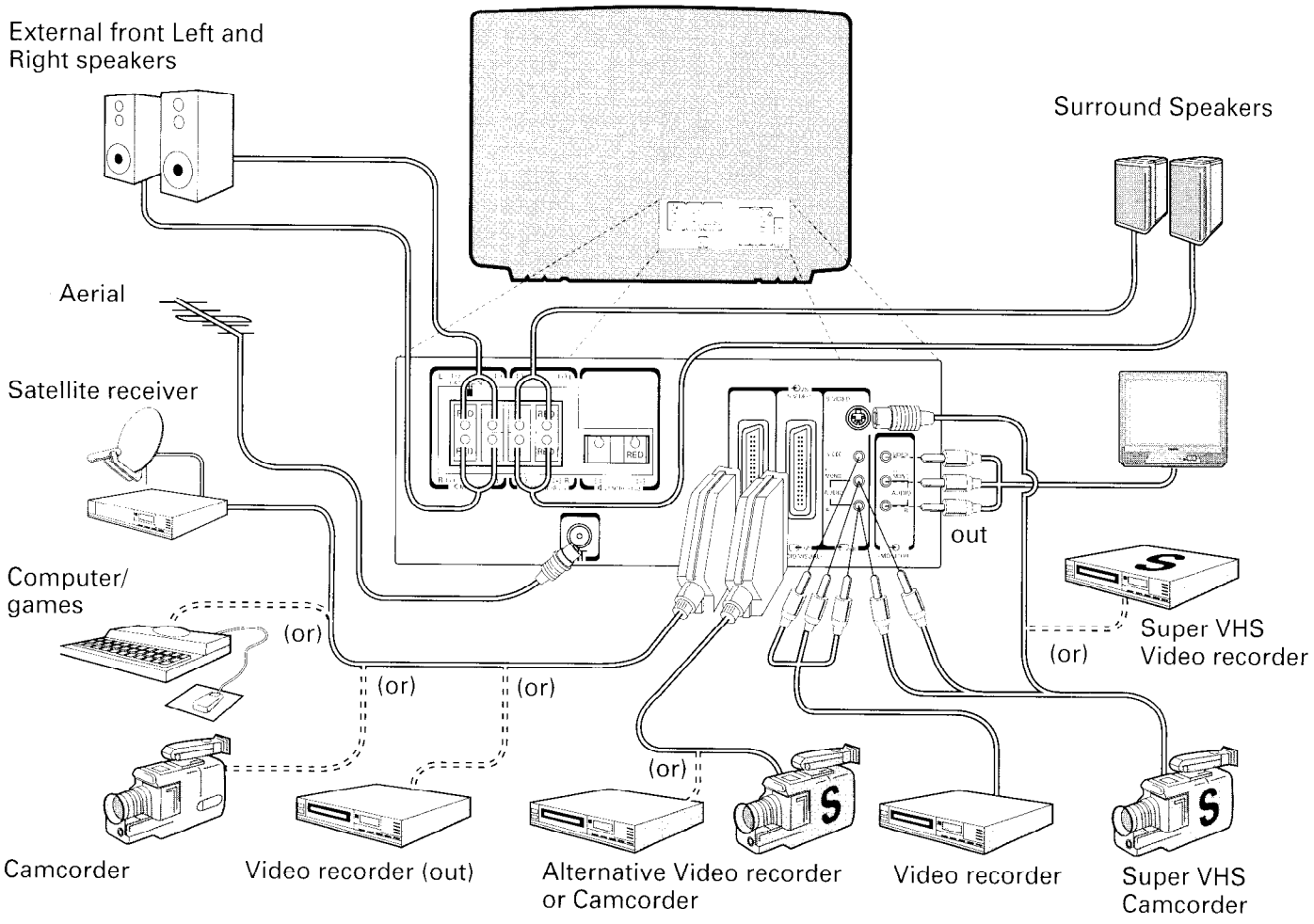
2 To turn the SKIP option on or off use the + (or −) button.



TV Back Connections

You may now connect any auxiliary equipment using SCART leads for optimum performance.
The diagram below illustrates some of the possible connections for auxiliary equipment.

Note: A wider front Stereo effect may be obtained by connecting extension front speakers



Having connected your video recorder, satellite receiver etc. as shown in the diagram above you may have to use the external source selection button ⊙. If your TV automatically switches over to monitor the auxiliary equipment (see page 11), press one of the numbered buttons on the remote control.

When connecting external Hi-fi speakers of your choice, they must be 8 ohm, 10W minimum.

Please Note:
1. You must set the switch to EXT and observe the correct polarity.
2. When connecting external speakers always make sure that the power switch is turned off.
3. Never 'short ' the speaker cables.

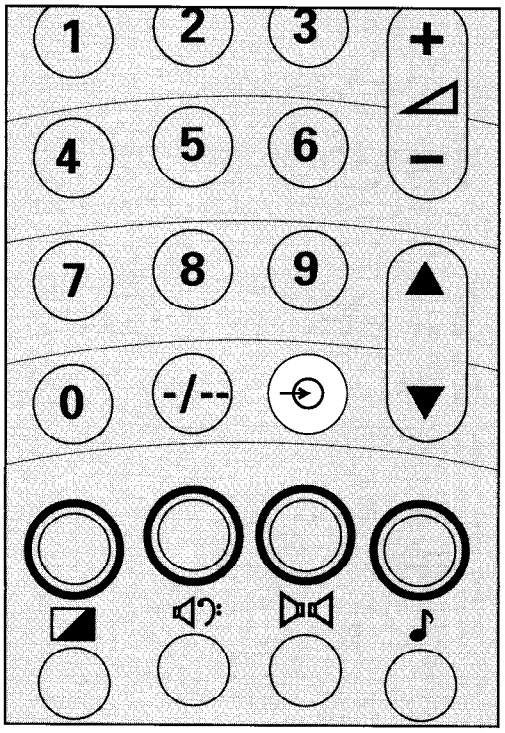
Connections

Connections:

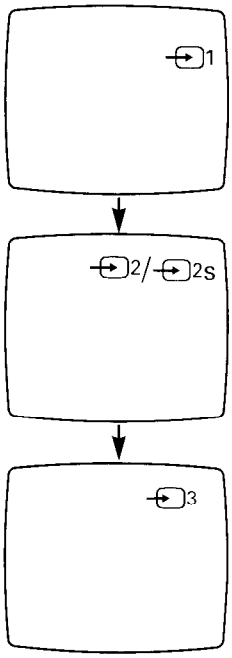
These sets have two 21 pin Scart sockets which enable you to connect a wide range of audio and video equipment.

If any auxiliary equipment is connected to this TV via the scart connector, you may discover that the TV automatically switches over to monitor the equipment. This depends upon the type of auxiliary equipment connected.

If your auxiliary equipment does not have a Scart socket. Connect the video, satellite receiver etc. to the TV via the aerial socket.



Automatic Input Selection



1 If the TV does not switch over automatically, press the ⊙ button to bring up the adjacent display. This will set your TV to a video connected through Scart 1.

2 Press the ⊙ button again to select a second video recorder, laser disc player, Camcorder, computer/games or satellite receiver through Scart 2.

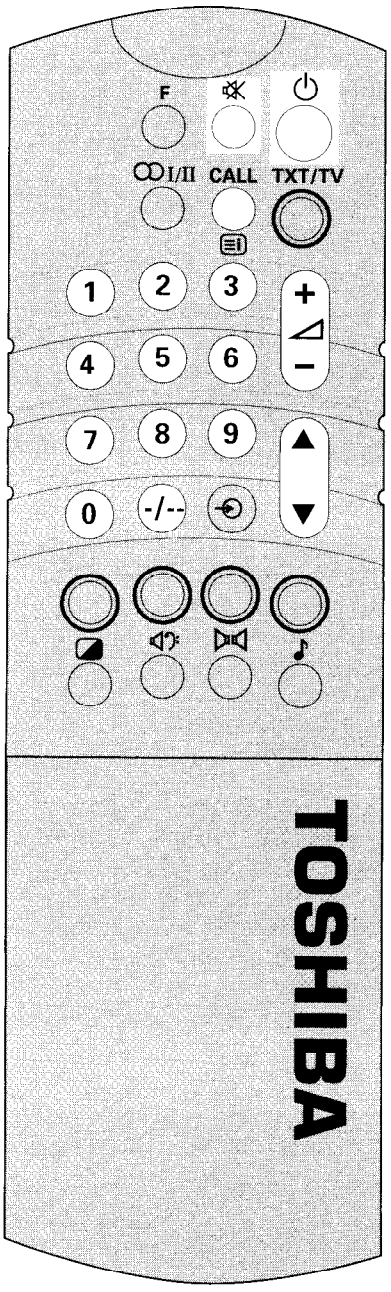
3 Press the ⊙ button again to select a Camcorder connected either to the front of the TV or to the Super VHS connector at the rear of the TV (input 3).

To return to TV mode simply press one of the numbered buttons on the remote control. To view the auxiliary equipment once again, simply press the ⊙ button.

Watching TV programmes

NOTE: To identify the current programme position press the CALL button. Press again to cancel the display.

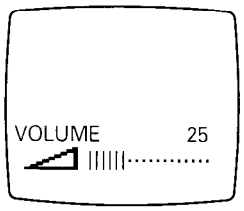
Volume settings, changing programme positions using the remote control:



Standby Button ⏻:
This allows you to put the set into standby mode when leaving the TV unattended for short periods of time, or when using the 'ON TIMER' (see page 21). To return to TV mode press the ⏻ button, or any of the numbered buttons on the remote control.

To alter the volume

1 To raise or lower the volume press the ◿+ or − buttons. The display will show the changes.



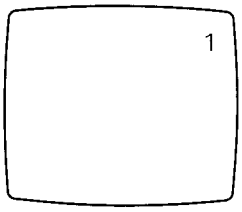
Alternatively:

2 The sound can be muted simply by pressing the 🔇 button. Press again to restore the sound, the 🔇 symbol will disappear.

To change programme position

1 To select a programme position press one of the numbered buttons.

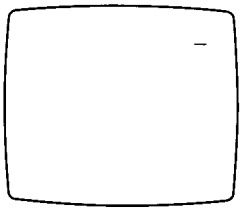
The programme position will be displayed in the top right corner of the screen.



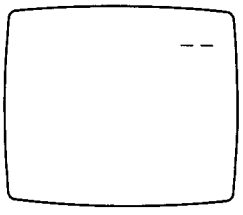
Alternatively:

2 You can change the programme position by using the ▲ button to increase by one or the ▼ to reduce by one.

1 For programme positions below 9, press the -/-- button to select –. Enter the desired programme position number using the numbered buttons on the remote control.



2 For programme positions above 9, press the -/-- button to select – –. Enter the desired 2 digit programme position number (10-99).



Selectable picture

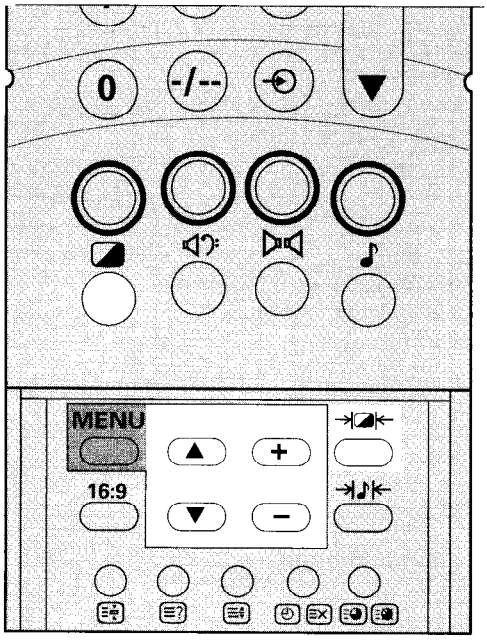
Selectable picture allows you to change the contrast at the touch of a button.

Picture adjustment using the remote control, Noise reduction, Blue back:

There are four picture styles to choose from designed to suit your particular taste.

The digital effect increases from picture style →◪←3 up to style →◪←1. ie should you require high levels of contrast but a low digital effect you can choose picture style →◪←3 and then increase contrast and brightness.

The memory will contain your own selection of Contrast, Brightness, Colour (and Tint) as set out below.

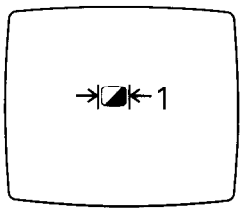


The Noise Reduction (NR) feature can improve the picture quality of a weaker signal.

The Blue Background control (BB) instructs the television set to mute the sound and switch the screen to blue when no signal is being received and will switch to standby after approximately 20 minutes.

To select the alternative picture styles

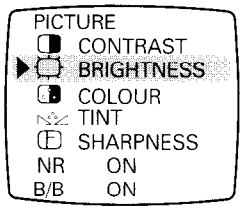
1 Press the →◪← button (in the concealed portion of the remote control) repeatedly to view the different picture styles available.



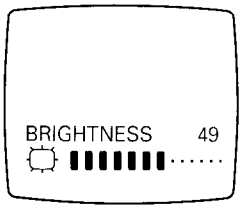
Contrast, Brightness, Colour and Tint Adjustment

1 Press the ◪ button repeatedly to select the PICTURE menu.

Press the ▲ button repeatedly to select between the Contrast ◨, Brightness ☐, Colour ◨ and Sharpness ▣. The tint may only be adjusted on a tape which has been recorded & played back on an NTSC video recorder.

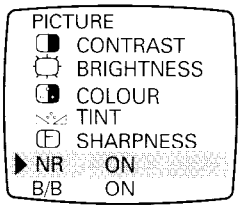


2 Use the + or − buttons to adjust the settings.



To select Noise Reduction (NR) and Blue Back (B/B)

1 Press the ◪ button to bring up the adjacent display. Press the ▲ (or ▼) buttons to select NR or B/B.



2 To turn on (or off) press the + (or −) buttons.

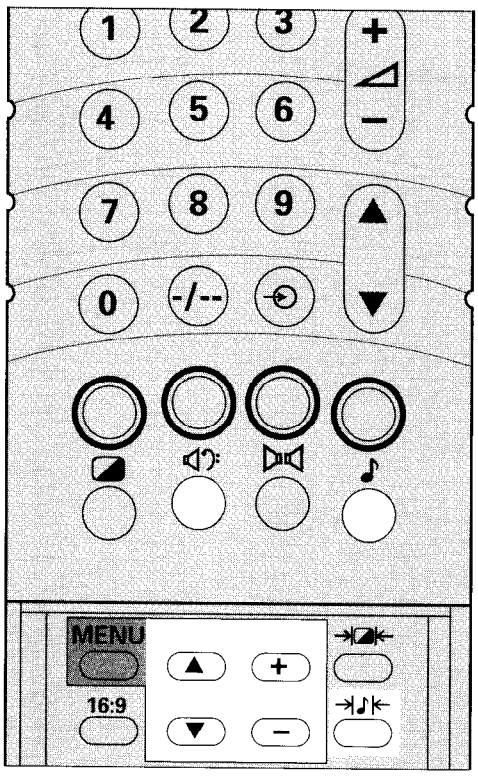
Selectable tone

Selectable tone allows you to change the treble and bass at the touch of a button.

Sound adjustment using the remote control, Super Woofer:

There are four sound styles to choose from designed to suit your particular taste.

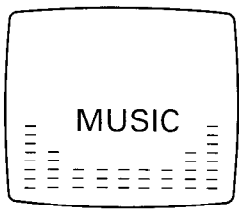
The memory will contain your own selection of Bass, Treble and Balance as set out below.



A Super woofer system which has been built into your new Toshiba television which will add a greater depth to the sound.

Selecting the alternative tone styles

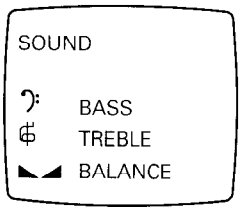
1 Press the →♪← button repeatedly to choose the tone style that is right for the mood of the programme being viewed.



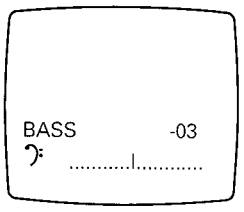
Note: The frequency bars are NOT adjustable.

Bass, Treble and Left and Right Balance Adjustments

1 Press the ♪ button repeatedly to select between Bass, Treble and left and right balance.

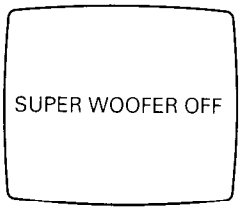


2 Use the + or − buttons to adjust the settings.

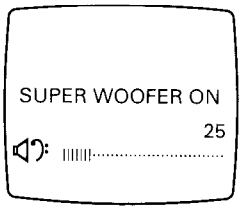


To select Super woofer

1 Press the button to select SUPER WOOFER 'ON'. Press again to turn it 'OFF'.



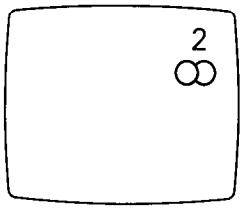
2 Press the + (or −) button to adjust the 'volume' level.



Stereo or bilingual broadcasts

This TV set is designed to receive and automatically select all Nicam transmissions. The following describes the operation and displays which accompany stereo broadcasts. **Nicam broadcasts can be in either Stereo or Mono.**

Stereo mode:



If stereo broadcasts are transmitted the CD symbol will appear in the upper right corner of the screen, after a few seconds the display will disappear. The display will reappear each time you change programme positions, provided that the broadcast is in stereo.

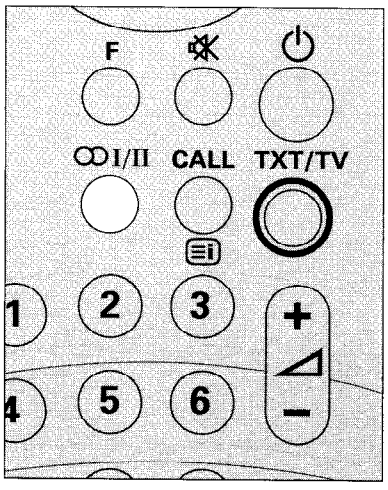
Some common problems with stereo reception:

No stereo CD symbol appears:

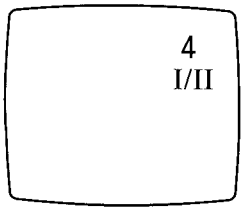
1 It is not a stereo transmission.
2 Your local transmitter has not been upgraded for stereo.
Note: For stereo information refer to the TV programme magazine or text pages for your area.

Stereo CD symbol appears but sound is in Mono

1 You have selected Mono (▽) mode.
2 The original soundtrack of the film etc. was recorded in Mono.



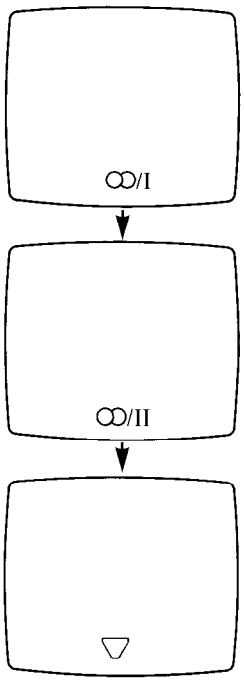
Bilingual transmissions are rare. If bilingual broadcasts are transmitted the I/II symbol will be displayed.



To select stereo/mono mode

1 Press the CD I/II button repeatedly, the CD/I, CD/II and ▽ symbols appear alternately in the lower part of the screen.

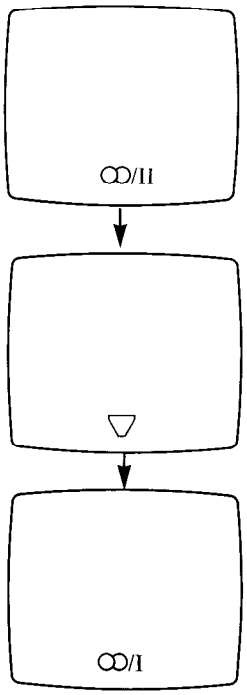
2 Select CD/I or CD/II for Stereo sound, or ▽ for mono. (Non-Stereo signals or areas of poor Stereo reception)



To select bilingual mode (when transmitted)

1 Press the CD I/II button to select CD/II for soundtrack 2, press again to select ▽ for soundtrack 3, press again to bring you back to CD/I for soundtrack 1.

Symbol	Soundtrack
CD/I	Soundtrack 1
CD/II	Soundtrack 2
▽	Mono



Surround effect selection

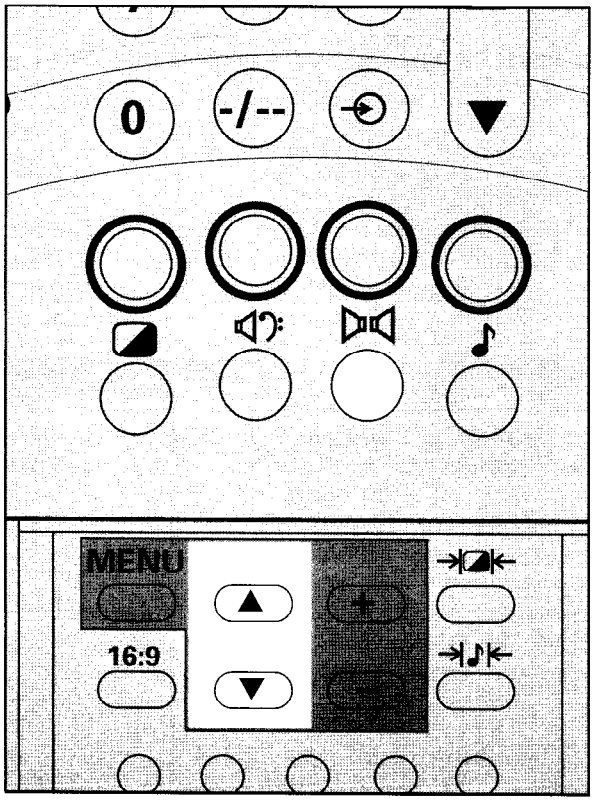
With Toshiba's 'Digital Surround processor' and Dolby Pro Logic Surround your television can simulate a wide range of various surroundings: From Dolby Pro Logic Surround (Normal and Phantom) and Dolby 3 Stereo to Hall, Theatre, Disco, Stadium and Pseudo surround.

Toshiba's TV's with Dolby Pro Logic Surround use a combination of five speakers (front-left, front-right, front-centre and two rear speakers) to reproduce in the living room the surround effects now available on most videos and an increasing number of TV broadcasts.

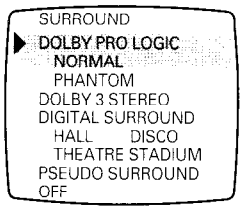
With Toshiba's Digital surround processor, various effects are available to simulate a wide range of listening environments using the surround speakers. Whatever you are watching, it's easy to choose the sound mode that will make you feel as if you are right there in the concert hall, movie theatre, disco or stadium and even mono soundtracks can be enhanced when in pseudo mode.

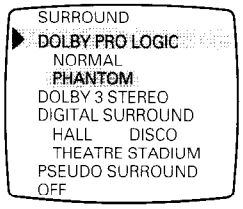
The diagram below should help you decide which is the best setting for the programme that you are watching.

The choice is yours!

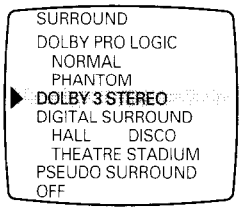


1 Press the ▷◁ button to select the SURROUND display. Press the ▾ button to select between the modes available. DOLBY PRO LOGIC - NORMAL or PHANTOM

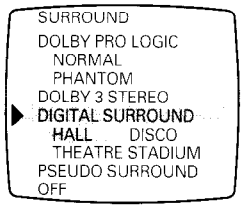


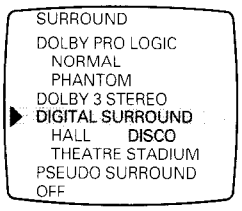


DOLBY 3 STEREO

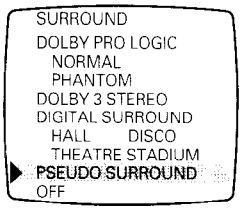


DIGITAL SURROUND HALL **OR** THEATRE **OR** DISCO **OR** STADIUM

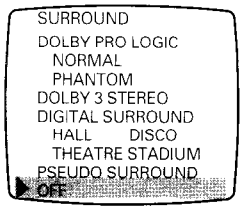




PSEUDO SURROUND



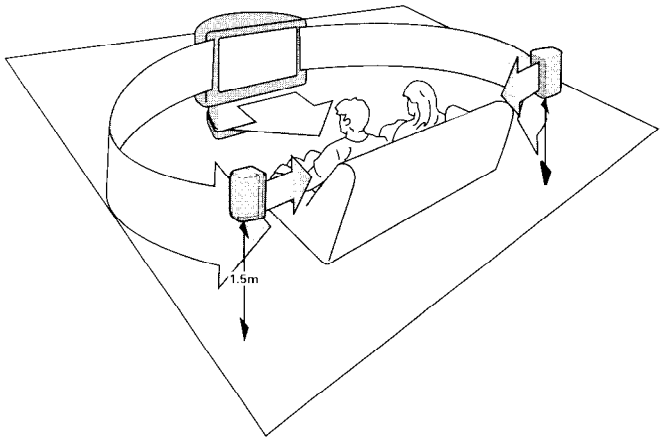
OFF (Surround Sound off, normal stereo).



Dolby Pro Logic Surround

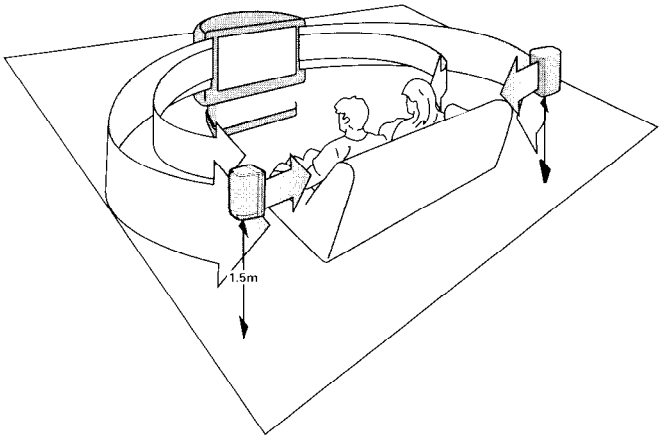
The illustrations below show the sound effects available from the three modes, and the speakers used.

Dolby Pro Logic: Normal



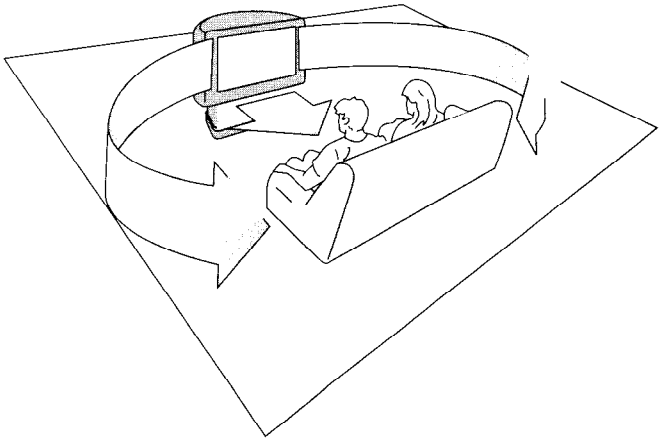
5 Speakers Driven:
- Front Left,
- Centre,
- Front Right,
- Rear Left and Right,
- Super Woofer Feature.

Dolby Pro Logic: Phantom



4 Speakers Driven:
- Front Left,
- Front Right,
- Rear Left and Right
- Super Woofer Feature.

Dolby 3 Stereo:



3 Speakers Driven:
- Front Left,
- Centre,
- Front Right,
- Super Woofer Feature.

Dolby Pro Logic Surround

The realistic sound of the cinema is now available from your Toshiba television. This amazing 3 dimensional sound effect is available from any video and laser disks recorded in Dolby Surround and from an increasing number of TV broadcasts; **bear in mind that you need a stereo video recorder, connected via the scart lead provided, to obtain the effect from a video tape (which is recorded in Dolby Surround).**

Dolby Pro Logic Surround:

Part of the excitement of a great film in the cinema often comes from the soundtrack. Hearing thunder rumble round the auditorium, or being surrounded by the atmospheric sounds of the jungle can make all the difference to the extent that we are drawn into a film.

These effects are usually created in the cinema by Dolby Stereo, a unique sound recording system which adds depth and sensitivity to a stereo sound track by projecting a surround track behind and around the audience.

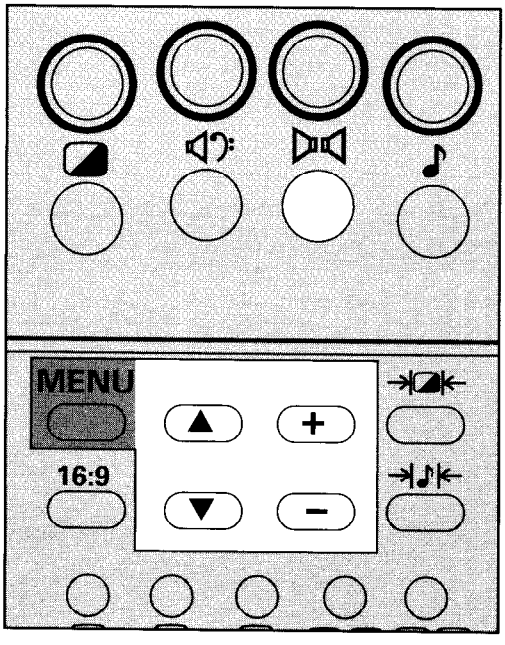
This surround track has now been used on almost 5,000 films, most of which are now available on video. It is also broadcast as part of the signal when TV companies show these feature films in Nicam stereo. But until now, ordinary TV's were unable to 'unlock' this track and play it back around and behind the viewer.

Now Toshiba brings Dolby Pro Logic Surround (the domestic version of Dolby Stereo) into your living room - letting you, the viewer, enjoy films at home just the way the director intended them to sound in the cinema.

Dolby Pro Logic: Normal uses a combination of 5 speakers - front-left, centre, front-right and two rear speakers to reproduce in the living room the surround effects now available on most videos and an increasing number of TV broadcasts.‡

Dolby Pro Logic: Phantom uses a combination of 4 speakers - front-left, front-right and two rear speakers. If you cannot use the stand, this mode will enable you to enjoy the effects of Dolby Pro Logic Surround without using the centre speaker.

Dolby 3 Stereo uses a combination of 3 speakers - front-left, centre and front-right. If you choose not to use the rear speakers, this mode will produce a strong, wide stereo surround effect.‡

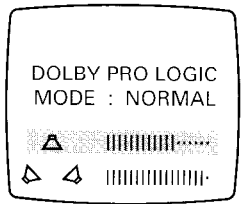


‡ The stand's detachable centre speaker can be used for Dolby Pro Logic Normal and Dolby 3 Stereo.

To select Dolby Pro Logic Surround

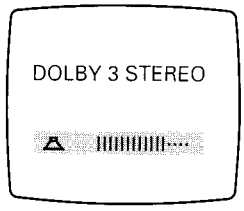
1 Press the ⋈ button to select the SURROUND display. Press the ▲ or ▼ button to select between DOLBY PRO LOGIC, NORMAL and PHANTOM. Press the ⋈ button again to bring up the levels display.

2 To set the levels use the test routine described on page 19.



To select Dolby 3 Stereo

1 Press the ⋈ button to select the SURROUND display. Press the ▲ or ▼ button to select DOLBY 3 STEREO. Press the ⋈ button to view the level set



2 To adjust the level use the test routine described on page 19.

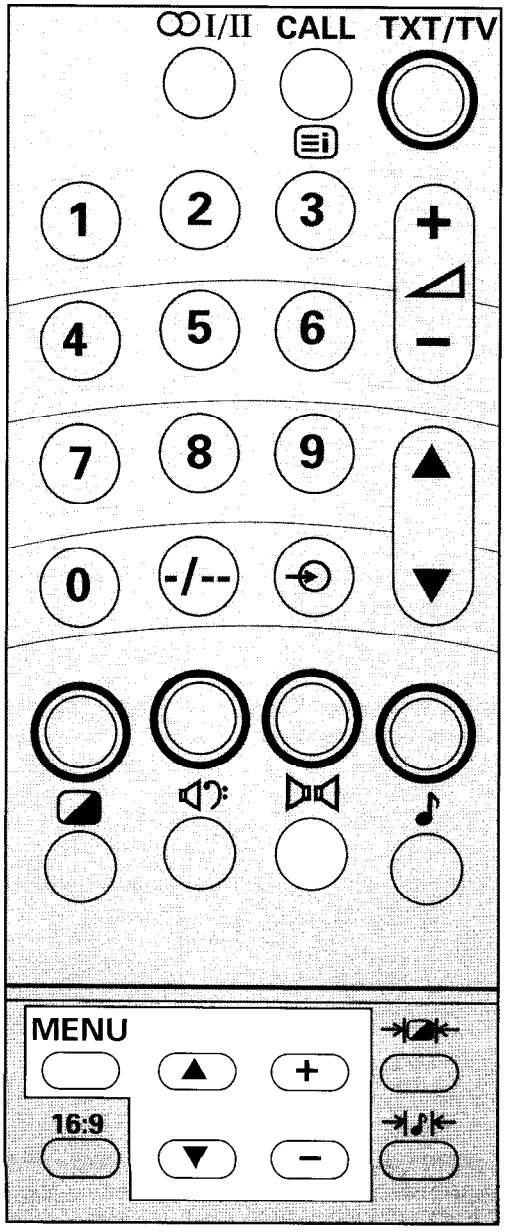
Press the CALL button to cancel.

Dolby Surround level settings

When running the following Test sequences ensure that you are seated where you would normally watch the TV. These Test sequences are designed to let you balance all the speakers to the same volume level. The method of adjustment described below is the same for all the Dolby Surround effects (Dolby Pro Logic Surround and Dolby 3 Stereo). The viewing position is important to gain the maximum effect from this TV. **Note:** To adjust the front left and right balance see page 14. Once the levels have been set they will need little or no adjustment.

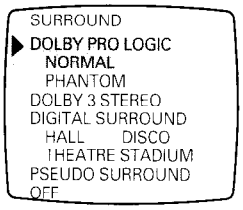
Pro Logic and Dolby 3 settings:

In order to get the best sound response from your new Toshiba TV we strongly recommend that adjustments should be made only whilst running the TEST menu (all the speaker levels are fully adjustable). The TEST will play a 'white noise' through each of the speakers in turn. The display will show you which speaker is in play, adjustment to the speaker levels may be made whilst it is highlighted on the screen.

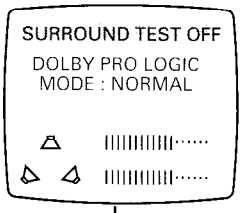


To select Pro Logic TEST mode: Pro Logic Normal/Phantom and Dolby 3 Stereo

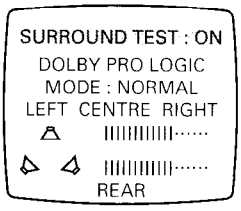
1 Press the ▷◁ button to bring up the adjacent display. Press the ▲ or ▼ to select the mode required.



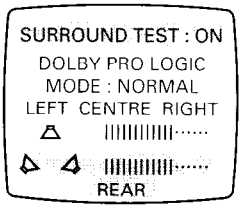
2 Press the MENU button repeatedly to select the SURROUND TEST display



3 Press the + button in the concealed portion of the remote control to turn the TEST on.



4 Adjust the Centre and Rear levels to match the Front Left and Right by pressing the + or − buttons (in the concealed portion of the remote control) whilst the relevant display is highlighted.

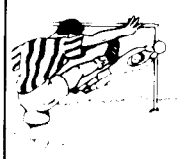


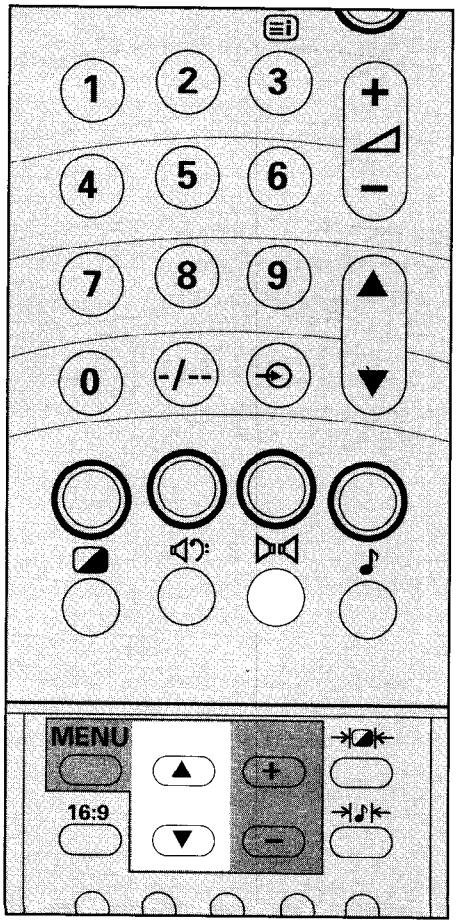
5 To end the TEST press the CALL button. This will then turn the TEST off.

Note: Repeat this procedure for each of the Pro Logic modes. i.e. Dolby Pro Logic Normal, Dolby Pro Logic Phantom and Dolby 3 Stereo. This test sequence does not work on any of the digital surround modes.

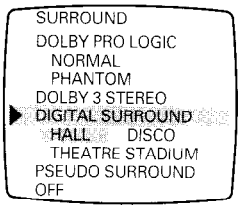
Digital surround processor

Note: Hall, Theatre, Disco, and Stadium effects are only available on a stereo signal. Pseudo surround works on both mono and stereo signals. All of the Digital surround modes are adjustable, the method of adjustment described below is the same for all the Digital Surround effects.

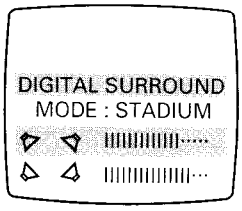
	HALL	THEATRE	DISCO	STADIUM	PSEUDO
SETTING					
EFFECT	A concert hall with a seating capacity of about 1500.	A movie theatre filled with a rich, warm sound.	A room so full of music that it seems to engulf the listener.	A large football or baseball stadium packed for a live game.	A synthetic surround effect for movies and TV programmes.
APPROPRIATE SOURCES	Classical, rock, pop or folk music. Ideal for TV programmes or music video tapes.	TV programmes or movies with stereo sound.	Disco, dance or jazz music.	Any live sports occasion.	Movies and TV programmes in mono.



1 Press the ▷◁ button to bring up the SURROUND display. Press the ▲ or ▼ button repeatedly to select 'DIGITAL SURROUND', and press the ▲ or ▼ button repeatedly to select the mode which best suits the type of broadcast.

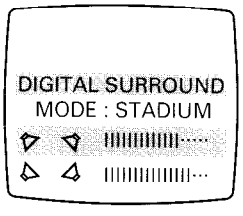


2 Press the ▷◁ button again to bring up the adjacent display. Press the ▲ or ▼ button to select between the front and rear speakers.



3 Press the + (or −) buttons in the concealed portion of the remote control to increase (or decrease) the levels.

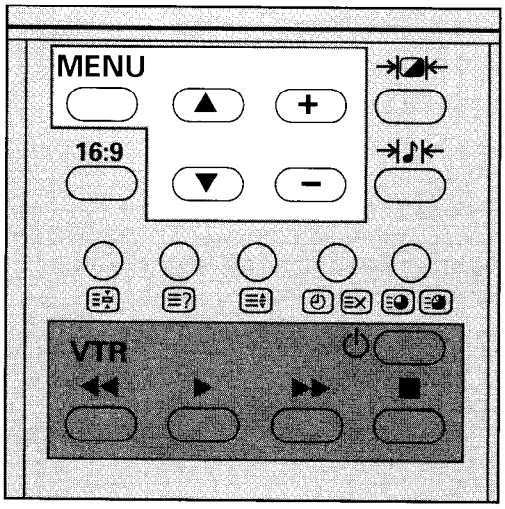
Note: The display must be on the screen to make these adjustments. Any changes are automatically stored in memory.



MENU's

Timer, Text:

The Timer is especially useful if you want the television to turn itself on or off after a selected period of time. For example: If you want the set to turn itself on in 30 minutes time and watch programme 3 simply follow the procedure in steps 1 and 2. Activation of the Timer is indicated by a green warning light on the front of the TV (see page 5).



To select the Timer Menu

1 Press the MENU button to bring up the adjacent display. To select between 'ON' or 'OFF' press the ▲ (or ▼) buttons.

FUNCTION
▶ TIMER
OFF 00 01
ON 00 00 P01
TEXT FAST

2 Use the numbered buttons to set the ON or OFF delay time, e.g. On in 30 minutes.

Note: When setting the ON time you will be required to enter the selected programme position. The set must then be put into standby mode (see page 12). **The maximum time delay is 12 hrs 59 mins.**

FUNCTION
▶ TIMER
OFF 00 01
ON 00 30 P01
TEXT FAST

To select TEXT

1 Press the MENU button repeatedly until the adjacent display appears. By pressing the ▲ (or ▼) buttons you can select TEXT.

FUNCTION
TIMER
OFF 00 01
ON 00 00 P01
TEXT FAST

2 To change between FAST and LIST use the + button.

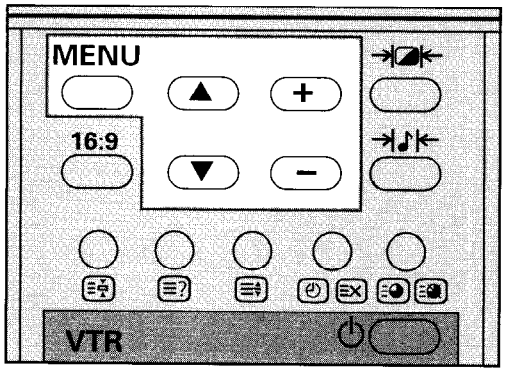
The use of these features is described on pages 24 & 25.

FUNCTION
TIMER
OFF 00 01
ON 00 00 P01
TEXT LIST

ADDITIONAL FEATURES
MENU's

External input/output:

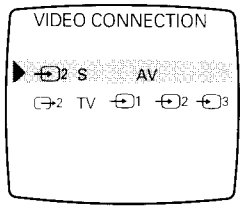
If you turn the TV off when monitoring any of the external inputs, the set will return to this selection when switched on again.



To select input signal for Scart 2

This enables the selection of the type of video recorder to be connected to the number 2 scart socket. The [S] sets up the television for S-Video, the AV sets the television for standard video recorders.

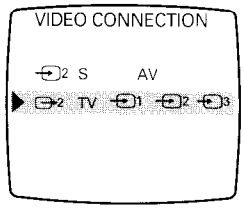
1 Press the MENU button repeatedly to bring up the adjacent display. Press the [+] button to select the required input signal for ⊣2.



To select output signal for Scart 2

This feature enables you to select the source to output to Scart 2.
e.g. If you connect a stereo satellite receiver to Scart 1 and a stereo video recorder to Scart 2, and select ⊣1, you will be able to record the stereo satellite transmission in stereo.

1 Press [▼] to select ⊢2, then press the [+] button to select between TV, ⊣1, ⊣2 or ⊣3.



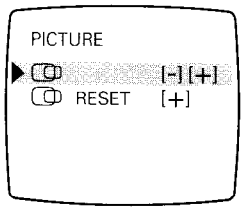
Picture centring:

Picture centring control

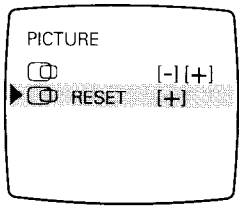
This is factory set and should need little or no adjustment, however, if when viewing text or using a computer the display is to one side, adjustment to a central position can be made.

Picture centring control

1 Press the MENU button repeatedly to bring up the adjacent display. Press the [▲] button to select ⧉. Press the [+] button to adjust.



2 Press the [▼] button to select ⧉ RESET. Press the [+] button to reset to the factory setting.



16:9, Time display

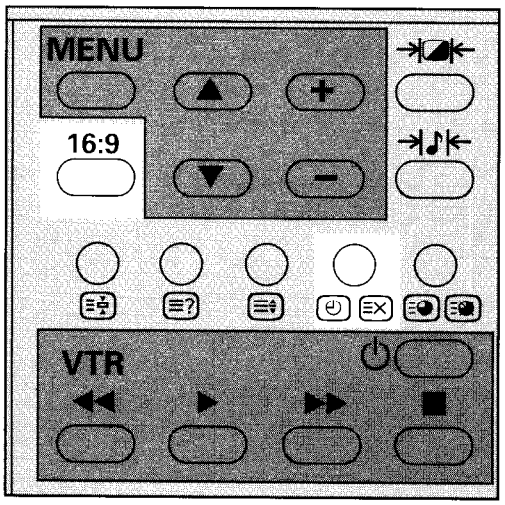
16:9, Time Display:

This feature has been included for programmes which are transmitted in the wide screen format.

Most feature films are shot in wide screen (16:9) format, which is then compressed at the studio. With the growth of satellite broadcasts, more and more films are broadcast in Wide Screen format.

If you view a Wide Screen broadcast in Normal (4:3) mode the aspect ratio (height compared to width) will be incorrect.

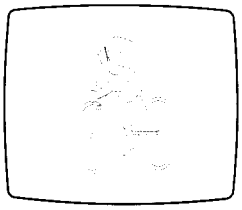
The aspect ratio of the transmission can be corrected by a feature known as picture compression. When viewing a transmission in this mode the images on the screen are restored to their normal proportions. Black bars will appear at the top and bottom of the screen.
NOTE: There could be interference lines outside the viewing area, this is normal.



To alter aspect ratio

1 Press the 16:9 button in the concealed portion of the remote control.to view wide format broadcasts.

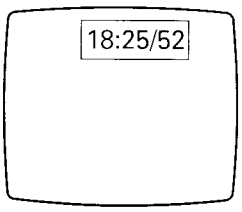
By pressing the 16:9 button the aspect ratio is altered and the images are restored to their normal proportions.



To revert to normal 4:3 format, simply press the 16:9 button again.

To select the Time Display

1 If you press the ⏲ EX button whilst watching a normal TV broadcast, you will see a very accurate time display appear in the top right corner of the screen. ie 6.25 and 52 seconds p.m.



Text

Your new Toshiba TV is capable of displaying Text in a number of ways: FASTEXT, LIST and NORMAL TEXT. The text systems available will depend on which system(s) are broadcast by your television broadcast station. Your Toshiba dealer will be able to advise you.

Using Text: As selected from the MENU options on page 21

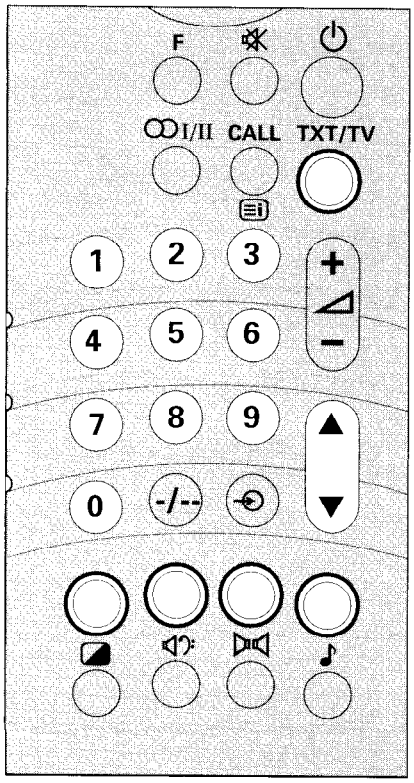
When you first select text you will see an index page which briefly outlines the main subject areas and their relevant page numbers. You can access any text page by entering a 3 digit page number using the numbered buttons on the remote control.

To advance to the next page of text, press the ▲ button, to go back to the previous page press the ▼ button.

If a FASTEXT signal is not broadcast, and you have selected FAST from the menu described on page 17 your TV will automatically display Normal Text, i.e. you can select any page using the method described above.

FASTEXT is a method of viewing text pages by related subjects. These subject areas are grouped by the broadcast studio and are selected by pressing one of the associated coloured prompt buttons on the remote control.

LIST mode enables you to select an INITIAL page and four linked text pages on any programme position 0-9.



Using FASTEXT

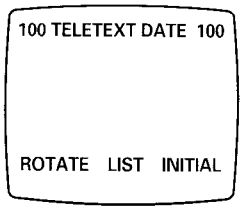
Press the **TXT/TV** button to select text.

To access any given subject simply press the relevant coloured button on the remote control.

Using LIST Mode

1 Press the **TXT/TV** button to select text.

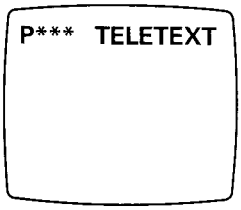
2 To programme the set to hold 4 pages in memory. (Programme positions 0-9). Select the LIST function by pressing the GREEN button.

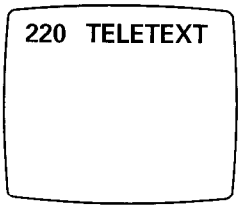


3 Enter the first page number then press the GREEN button. The page number in the lower right corner of the screen will appear in purple. (If the number reverts to white simply press the GREEN button again.) Repeat step 3 for each of the desired 4 pages.

4 To view the selected pages press the RED button for ROTATE.

5 To pre-programme an INITIAL page. Select the INITIAL function by pressing the YELLOW button. P*** will appear in the top left corner of the screen. Enter the required 3 digit page number. As you key in the desired INITIAL page, for example page 220, the numbers will replace the P***.



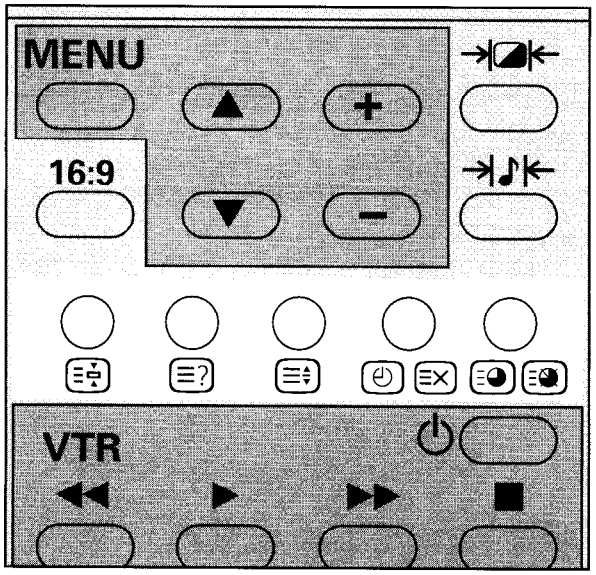


Note: It will not be possible to change programme position or use any of the other functions whilst in Text mode, you will have to cancel the text first by pressing the **TXT/TV** button.

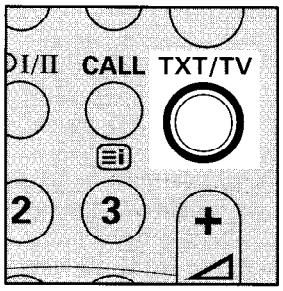
The text buttons on the remote control

Below is an introduction to the text buttons (in the concealed portion) on your remote control and their functions. Please Note: It is not possible to change programme positions whilst in text mode. Please note: The Timed Page button (◉◉) has no function on this set as this service is not currently available in the UK.

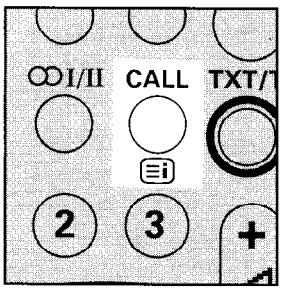
Text:



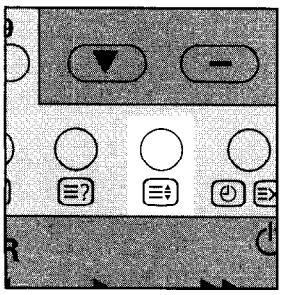
1 **TXT/TV** **To display a page of text:**
Press the **TXT/TV** button to display the initial page. Press again to superimpose the text over a normal broadcast picture. Press again to return to normal TV mode.



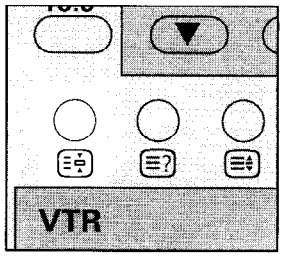
2 **To display an index page:**
Press the ☰i button to call up the index page for the subject area you are viewing. If you are viewing a section index, by pressing the ☰i button again you will see the general index. (In Fastext only)



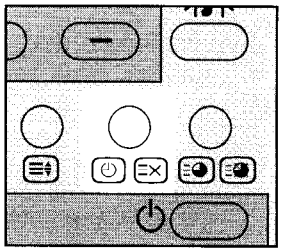
3 **To enlarge the text display size:**
Press the ☰↕ button once to enlarge the top half of the page, press again to enlarge the bottom half of the page. Press again to revert to the normal size.



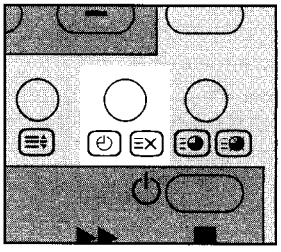
4 **To hold a wanted page:**
At times it is convenient to hold a page of text. Press the ☰↕ button and the word HOLD will appear in the top left of the screen. Press again to release.



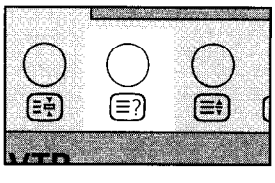
5 ◷ ☒ **To select a page whilst viewing a normal picture:**
If, whilst in text mode, the ◷ ☒ button is pressed, a normal picture will be displayed. A page selection can be entered and the TV will indicate its presence by displaying a box with the selected page number. Press the **TXT/TV** button to view the page.



To display news flashes:
To view news flashes as they are broadcast, select the news flash page for the particular text service (see the index page of text service). Press the ◷ ☒ button. The news flashes will be displayed as and when they are broadcast. Press the ◷ ☒ button to cancel the display. Note: It will not be possible to change programme position whilst in this mode, you will have to press the **TXT/TV** button to cancel the text first.

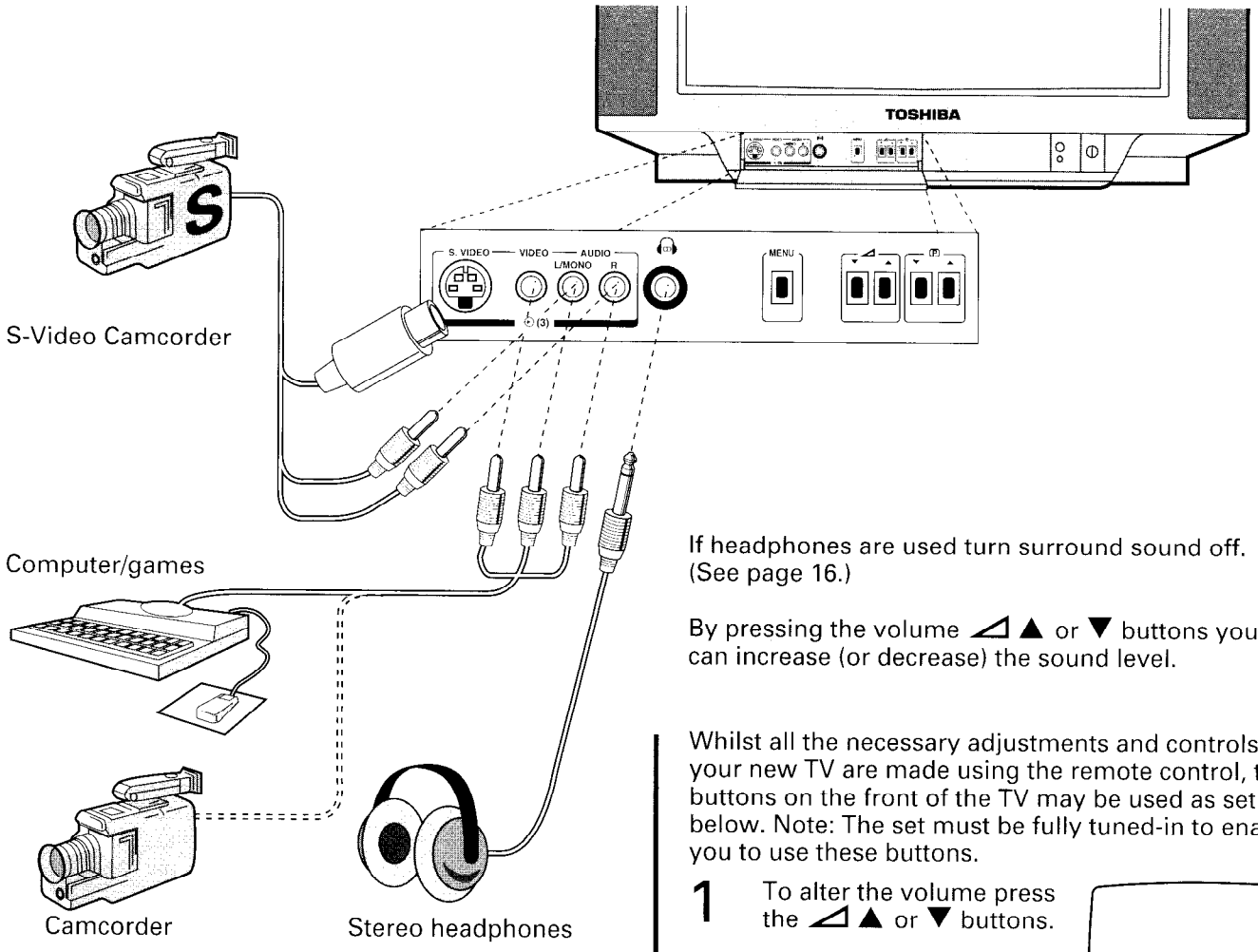


6 **To reveal concealed text:**
Some pages cover topics such as quizzes and jokes. To discover the solutions press the ☰? button.



TV Front Connections

For your convenience you can now make connection of camcorders, computer games etc. much more easily. These are accessible through the sockets located behind the flap on the front of the TV set. To open, simply press the centre of the panel. Do not connect equipment to both the front and rear AV ⇥3 input terminals at the same time.

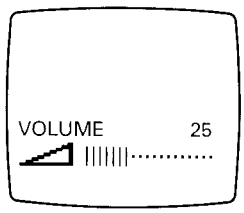


If headphones are used turn surround sound off. (See page 16.)

By pressing the volume ◿ ▲ or ▼ buttons you can increase (or decrease) the sound level.

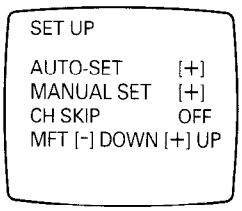
Whilst all the necessary adjustments and controls for your new TV are made using the remote control, the buttons on the front of the TV may be used as set out below. Note: The set must be fully tuned-in to enable you to use these buttons.

1 To alter the volume press the ◿ ▲ or ▼ buttons.



2 To alter the programme position press the Ⓟ ▲ or ▼ buttons.

1 Pressing the MENU button repeatedly, will enable you to select between the PICTURE menu, SOUND menu, FUNCTION menu and the SET UP menu.



2 Press the Ⓟ ▲ or ▼ button to select the required item and press the ◿ ▲ or ▼ buttons to adjust.

Allow displays to disappear

Note: Do not connect equipment to both the front input sockets at the same time (S/Video and Video).

For your guidance

If your TV fails to operate correctly, we recommend that the following simple checks are carried out before contacting your local Toshiba dealer.

Simple problem solving:

No Picture or Sound.
Check mains switches are on, press ⏻. Plug into a known working mains socket.
'Timer off' facility has operated.

Poor or no Picture.
Try a different TV station, check your aerial and connections. Adjust fine tuning.

Good picture but no sound.
Press ◿+.
Check that the External Main speaker switch is in the INT position.

Blue Screen.
The set senses a 'no signal' condition, check the aerial connection, switch to a different programme position or confirm that there is no transmitted signal using another TV or check with a neighbour.

Remote Control does not work.
Check the batteries.

If you have problems with text.
Go to the main index page of the text service and look for the User Guide. This will explain the basic operation of text in some detail.

No Dolby Surround
If you are unable to obtain surround sound effects from the rear speakers whilst playing a Dolby Surround video tape, check that the video recorder is a stereo unit and that the direct left and right audio signals are input to the TV by means of either the 21-pin sockets or the phono "Video 3" sockets.

Coloured patches on screen.
Caused by magnetic field interference, turn off TV for 10 minutes, turn on again, fault of temporary nature.

VTR or Satellite picture in Black and White.
Ensure the correct input socket is being used and that the socket is not switched to S-Video.

Safety tips:

SOME DO'S AND DON'TS ON THE SAFE USE OF EQUIPMENT. PLEASE READ THE FOLLOWING POINTS CAREFULLY. THEY ARE OF A GENERAL NATURE, INTENDED TO HELP YOU WITH ALL YOUR ELECTRONIC CONSUMER PRODUCTS. SOME ITEMS MAY NOT APPLY TO THE GOODS YOU HAVE JUST PURCHASED.
This equipment has been designed and manufactured to meet international safety standards, but like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

DO read the operating instructions before you attempt to use the equipment.
DO ensure that all electrical connections, including the mains plug, extension leads and inter connections, between pieces of equipment, are properly made and in accordance with the manufacturers instructions. Switch off and withdraw the mains plug when making or changing connections.
Do leave at least 10 cm clearance around the top, sides and back of the TV to allow adequate ventilation and sound response.
DO be careful with glass panels or doors on equipment.
DON'T continue to operate the equipment if you are in any doubt about it working normally, or it is damaged in any way - switch off, withdraw the mains plug and consult your dealer.
DON'T remove any fixed cover as this may expose dangerous voltages.
DON'T leave equipment switched on when it is unattended, unless it is specifically stated that it is designed for unattended operation or has a standby mode. Switch off using the switch on the equipment and make sure your family know how to do this. Special arrangements may need to be made for infirm or handicapped people.
DON'T use equipment such as personal stereos or radios so that you are distracted from the requirements of traffic safety. It is illegal to watch television whilst driving.
DON'T listen to headphones at high volume, as such use can permanently damage your hearing.
DON'T obstruct the ventilation of the equipment for example, with curtains or soft furnishings. Overheating will cause damage and shorten the life of the equipment.
DON'T use makeshift stands and NEVER fix legs with wood screws - to ensure complete safety always fit the manufacturer's approved stand or legs with the fixings provided, according to the instructions.
DON'T allow electrical equipment to be exposed to rain or moisture.
ABOVE ALL - NEVER let anyone, especially children, push anything into holes, slots or any other openings in the case - this could result in a fatal electric shock - NEVER guess or take chances with electrical equipment of any kind - it is better to be safe than sorry.

Cleaning the screen and cabinet. After turning off the power, clean the screen and cabinet with a soft, dry cloth. We recommend that you do not use any proprietary polishes or solvents on the screen or cabinet as this may cause damage.

Specifications, Accessories

Specifications:

Receiving system	CCIR (PAL – I) TV Broadcast standard
Receiving channels	UHF: Channels 21-69
Mains Plug 'Fitted' fuse	5 amp
Power consumption	2557 135 watts, 2857DB 160 watts, 3357DB 160 watts
Programme Positions	100
Stereo	Nicam - I and Dolby Pro Logic surround sound
Video Input	PAL, PAL 60 Hz. (Video disk playback) NTSC 3.58/4.43 MHz./50Hz. NTSC (VTR playback)
Input/Output	Scart -1 (Full -21 pin) RGB, AV
Input/Output	Scart-2 (21 pin)AV. S-video
Front input	Input 3 (4 pin S-VHS RCA jack)
Rear input	Input 3 Normal/S-video, Audio (Note: Front and Rear Input 3 are common)
Sound output (at 10% distortion)	Main: 10 + 10W. rms Super Woofer: 13W. rms Centre Speaker: 10W. rms Surround: 5 + 5W. rms
External speaker Terminals	Main x 2, Centre x 1, Surround x 2 (for rear speakers)

Dimensions	2557DB	2857DB	3357DB
	703 mm (W)	760 mm (W)	900 mm (W)
	523.5 mm (H)	569 mm (H)	681 mm (H)
	460 mm (D)	480 mm (D)	528 mm (D)
Weight	29.5Kg	35.2Kg	51.0Kg

Headphone Socket	3.5 mm Stereo

Accessories:

1 Remote control
2 (R6, AA) batteries
1 Stand including centre speaker
1 Scart lead

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